Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate in RS.
BRUHAT BANGALORE MAHANAGARA PALIKE									
NAME OF WORK: Improvements to roads and drains at Nagenahalli SC/ST Colony and surrounding areas in Ward No. 02 of Yelahanka Sub division									
Measurements Taken On :									
MEASUREMENT SHEET - 1st and FINAL BILL									
Chainage From	**Chainage To**	**Description of Item**	**Unit**	**No**	**Length (m)**	**Breadth (m)**	**Depth (m)**	**Quantity**	**Remarks**
Item No. 01		**Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. and as per the directions of the Engineer-in-charge of the work .**							
		New Drain							
		Harohalli colony							
		Temple Road							
0	14.4		Cum	1	14.40	1.40	1.20	24.19	
14.4	18.2		Cum	1	3.80	1.40	1.20	6.38	
18.2	33.2		Cum	1	15.00	1.40	1.20	25.20	
33.2	48.2		Cum	1	15.00	1.40	1.20	25.20	
48.2	63.2		Cum	1	15.00	1.40	1.20	25.20	
63.2	76.7		Cum	1	13.50	1.40	1.20	22.68	
76.7	91.7		Cum	1	15.00	1.40	1.20	25.20	
91.7	96.5		Cum	1	4.80	1.40	1.20	8.06	
96.5	111.7		Cum	1	15.20	1.40	1.00	21.28	
111.7	120.5		Cum	1	8.80	1.40	1.00	12.32	
120.5	135.5		Cum	1	15.00	1.40	1.00	21.00	
135.5	149.2		Cum	1	13.70	1.40	1.00	19.18	
149.2	164.2		Cum	1	15.00	1.40	1.00	21.00	
164.2	176.2		Cum	1	12.00	1.40	1.00	16.80	
176.2	191.2		Cum	1	15.00	1.40	1.00	21.00	
191.2	203.4		Cum	1	12.20	1.40	1.00	17.08	
203.4	218.4		Cum	1	15.00	1.40	1.00	21.00	
218.4	224.3		Cum	1	5.90	1.40	1.00	8.26	
224.3	228.7		Cum	1	4.40	1.40	1.00	6.16	
228.7	243.7		Cum	1	15.00	1.40	1.00	21.00	
243.7	257.8		Cum	1	14.10	1.40	0.90	17.77	
		Cross Road							
		Left Side							
0	15		Cum	1	15.00	1.20	0.90	16.20	
15	16.9		Cum	1	1.90	1.20	0.90	2.05	
16.9	31.9		Cum	1	15.00	1.20	0.90	16.20	
31.9	46.9		Cum	1	15.00	1.20	0.90	16.20	
46.9	61.9		Cum	1	15.00	1.20	0.90	16.20	
61.9	76.9		Cum	1	15.00	1.20	0.90	16.20	
76.9	85.9		Cum	1	9.00	1.20	0.90	9.72	

CIVIL DEPO Sig Date BANGALORE

Contactor

PMC

Assistant Engineer

A.E.E

Assistant Executive Engineer

MEASUREMENT SHEET - 1st and FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
		Right Side							
0	15		Cum	1	15.00	1.20	0.90	16.20	
15	30.3		Cum	1	15.30	1.20	0.90	16.52	
30.3	41.3		Cum	1	11.00	1.20	0.90	11.88	
41.3	57		Cum	1	15.70	1.20	0.90	16.96	
		5thA Cross School Opposite							
0	15		Cum	1	15.00	1.20	1.10	19.80	
15	24.5		Cum	1	9.50	1.20	1.10	12.54	
24.5	39.5		Cum	1	15.00	1.20	1.10	19.80	
39.5	54.8		Cum	1	15.30	1.20	1.10	20.20	
54.8	69.8		Cum	1	15.00	1.20	1.00	18.00	
69.8	84.8		Cum	1	15.00	1.20	1.00	18.00	
84.8	98.5		Cum	1	13.70	1.20	0.95	15.62	
		5thA Cross School Opposite							
0	3.3		Cum	1	3.30	1.20	1.00	3.96	
		Bekary Opposite							
0	14		Cum	1	14.00	1.00	1.00	14.00	
		Cross Road							
		Left Side							
0	15		Cum	1	15.00	1.20	1.20	21.60	
15	24.7		Cum	1	9.70	1.20	1.20	13.97	
24.7	39.7		Cum	1	15.00	1.20	1.10	19.80	
39.7	50.1		Cum	1	10.40	1.20	1.10	13.73	
		Right Side							
0	15		Cum	1	15.00	1.10	1.00	16.50	
15	30		Cum	1	15.00	1.10	1.00	16.50	
30	45		Cum	1	15.00	1.10	1.00	16.50	
45	58		Cum	1	13.00	1.10	1.00	14.30	
		Cross Road							
		Right Side							
0	15		Cum	1	15.00	1.20	1.00	18.00	
15	32		Cum	1	17.00	1.20	1.00	20.40	
32	37.6		Cum	1	5.60	1.20	1.00	6.72	
		Cross Road							
		Left Side							
0	15		Cum	1	15.00	1.20	1.00	18.00	
15	30		Cum	1	15.00	1.20	1.00	18.00	
30	40		Cum	1	10.00	1.20	1.00	12.00	
		Right Side							
0	15		Cum	1	15.00	1.20	1.00	18.00	
15	30		Cum	1	15.00	1.20	1.00	18.00	
30	40.3		Cum	1	10.30	1.20	1.00	12.36	

Contactor

Assistant Engineer

Assistant Executive Engineer

MEASUREMENT SHEET - 1st and FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
		Cross Road							
		Left Side							
0	15		Cum	1	15.00	1.20	1.00	18.00	
15	30		Cum	1	15.00	1.20	1.00	18.00	
30	34		Cum	1	4.00	1.20	1.00	4.80	
		Right Side							
0	15		Cum	1	15.00	1.10	1.00	16.50	
15	30		Cum	1	15.00	1.10	1.00	16.50	
30	37.1		Cum	1	7.10	1.10	1.00	7.81	
		Over Burden							
			Cum	1	14.00	0.80	0.30	3.36	
		Culvert							
		Harohalli colony							
		Temple Road							
			Cum	1	4.90	1.60	1.00	7.84	
			Cum	1	3.80	1.60	1.00	6.08	
			Cum	1	6.80	1.60	1.00	10.88	
		Cross Road							
			Cum	1	7.40	1.60	1.00	11.84	
			Cum	1	6.40	1.60	1.00	10.24	
			Cum	1	10.40	1.60	1.00	16.64	
							TOTAL	**1105.08**	

CIVIL Pro Sig Date BANGALORE

Contactor PMC Assistant Engineer A.E.E Assistant Executive Engineer

MEASUREMENT SHEET - 1st and FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
15	24.5		Cum	1	9.50	1.20	0.15	1.71	
24.5	39.5		Cum	1	15.00	1.20	0.15	2.70	
39.5	54.8		Cum	1	15.30	1.20	0.15	2.75	
54.8	69.8		Cum	1	15.00	1.20	0.15	2.70	
69.8	84.8		Cum	1	15.00	1.20	0.15	2.70	
84.8	98.5		Cum	1	13.70	1.20	0.15	2.47	
		5thA Cross School Opposite							
0	3.3		Cum	1	3.30	1.20	0.15	0.59	
		Bekary Opposite							
0	14		Cum	1	14.00	1.00	0.15	2.10	
		Cross Road							
		Left Side							
0	15		Cum	1	15.00	1.20	0.15	2.70	
15	24.7		Cum	1	9.70	1.20	0.15	1.75	
24.7	39.7		Cum	1	15.00	1.20	0.15	2.70	
39.7	50.1		Cum	1	10.40	1.20	0.15	1.87	
		Right Side							
0	15		Cum	1	15.00	1.10	0.15	2.48	
15	30		Cum	1	15.00	1.10	0.15	2.48	
30	45		Cum	1	15.00	1.10	0.15	2.48	
45	58		Cum	1	13.00	1.10	0.15	2.15	
		Cross Road							
		Right Side							
0	15		Cum	1	15.00	1.20	0.15	2.70	
15	32		Cum	1	17.00	1.20	0.15	3.06	
32	37.6		Cum	1	5.60	1.20	0.15	1.01	
		Cross Road							
		Left Side							
0	15		Cum	1	15.00	1.20	0.15	2.70	
15	30		Cum	1	15.00	1.20	0.15	2.70	
30	40		Cum	1	10.00	1.20	0.15	1.80	
		Right Side							
0	15		Cum	1	15.00	1.20	0.15	2.70	
15	30		Cum	1	15.00	1.20	0.15	2.70	
30	40.3		Cum	1	10.30	1.20	0.15	1.85	
		Cross Road							
		Left Side							
0	15		Cum	1	15.00	1.20	0.15	2.70	
15	30		Cum	1	15.00	1.20	0.15	2.70	
30	34		Cum	1	4.00	1.20	0.15	0.72	
		Right Side							
0	15		Cum	1	15.00	1.10	0.15	2.48	
15	30		Cum	1	15.00	1.10	0.15	2.48	
30	37.1		Cum	1	7.10	1.10	0.15	1.17	
		Over Burden							
		Culvert							

Contactor

Assistant Engineer

Assistant Executive Engineer

MEASUREMENT SHEET - 1st and FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
		Harohalli colony							
		Temple Road							
			Cum	1	4.90	1.60	0.15	1.18	
			Cum	1	3.80	1.60	0.15	0.91	
			Cum	1	6.80	1.60	0.15	1.63	
		Cross Road							
			Cum	1	7.40	1.60	0.15	1.78	
			Cum	1	6.40	1.60	0.15	1.54	
			Cum	1	10.40	1.60	0.15	2.50	
		For Kerb Stone							
		Harohalli colony							
		Temple Road							
0	14.4		Cum	1	14.40	0.20	0.15	0.43	
14.4	18.2		Cum	1	3.80	0.20	0.15	0.11	
18.2	33.2		Cum	1	15.00	0.20	0.15	0.45	
33.2	48.2		Cum	1	15.00	0.20	0.15	0.45	
48.2	63.2		Cum	1	15.00	0.20	0.15	0.45	
63.2	76.7		Cum	1	13.50	0.20	0.15	0.41	
76.7	91.7		Cum	1	15.00	0.20	0.15	0.45	
91.7	96.5		Cum	1	4.80	0.20	0.15	0.14	
96.5	111.7		Cum	1	15.20	0.20	0.15	0.46	
111.7	120.5		Cum	1	8.80	0.20	0.15	0.26	
120.5	135.5		Cum	1	15.00	0.20	0.15	0.45	
135.5	149.2		Cum	1	13.70	0.20	0.15	0.41	
149.2	164.2		Cum	1	15.00	0.20	0.15	0.45	
164.2	176.2		Cum	1	12.00	0.20	0.15	0.36	
176.2	191.2		Cum	1	15.00	0.20	0.15	0.45	
191.2	203.4		Cum	1	12.20	0.20	0.15	0.37	
203.4	218.4		Cum	1	15.00	0.20	0.15	0.45	
218.4	224.3		Cum	1	5.90	0.20	0.15	0.18	
224.3	228.7		Cum	1	4.40	0.20	0.15	0.13	
228.7	243.7		Cum	1	15.00	0.20	0.15	0.45	
243.7	251.9		Cum	1	8.20	0.20	0.15	0.25	
							TOTAL	**169.42**	
							Quantity Limited to	**165.84**	

CIVIL Pro BANGALORE Sig Date

Contactor PMC

Assistant Engineer

A.E.E

Assistant Executive Engineer

MEASUREMENT SHEET - 1st and FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
Item no.03		Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. With 20mm and sown size granite metal course aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compcted for walls and bottom including centring shuttering cost of material HOM of machinary curing etc., complete execluding cost of steel as per MORTH specification and as per the directions of the Engineer-in-charge of the work .							
		Bottom Raft							
		Harohalli colony							
		Temple Road							
0	14.4		Cum	1	14.40	1.30	0.15	2.81	
14.4	18.2		Cum	1	3.80	1.30	0.15	0.74	
18.2	33.2		Cum	1	15.00	1.30	0.15	2.93	
33.2	48.2		Cum	1	15.00	1.30	0.15	2.93	
48.2	63.2		Cum	1	15.00	1.30	0.15	2.93	
63.2	76.7		Cum	1	13.50	1.30	0.15	2.63	
76.7	91.7		Cum	1	15.00	1.30	0.15	2.93	
91.7	96.5		Cum	1	4.80	1.30	0.15	0.94	
96.5	111.7		Cum	1	15.20	1.30	0.15	2.96	
111.7	120.5		Cum	1	8.80	1.30	0.15	1.72	
120.5	135.5		Cum	1	15.00	1.30	0.15	2.93	
135.5	149.2		Cum	1	13.70	1.30	0.15	2.67	
149.2	164.2		Cum	1	15.00	1.30	0.15	2.93	
164.2	176.2		Cum	1	12.00	1.30	0.15	2.34	
176.2	191.2		Cum	1	15.00	1.30	0.15	2.93	
191.2	203.4		Cum	1	12.20	1.30	0.15	2.38	
203.4	218.4		Cum	1	15.00	1.30	0.15	2.93	
218.4	224.3		Cum	1	5.90	1.30	0.15	1.15	
224.3	228.7		Cum	1	4.40	1.30	0.15	0.86	
228.7	243.7		Cum	1	15.00	1.30	0.15	2.93	
243.7	257.8		Cum	1	14.10	1.30	0.15	2.75	
		Cross Road							
		Left Side							
0	15		Cum	1	15.00	1.00	0.15	2.25	
15	16.9		Cum	1	1.90	1.00	0.15	0.29	
16.9	31.9		Cum	1	15.00	1.00	0.15	2.25	
31.9	46.9		Cum	1	15.00	1.00	0.15	2.25	
46.9	61.9		Cum	1	15.00	1.00	0.15	2.25	
61.9	76.9		Cum	1	15.00	1.00	0.15	2.25	
76.9	85.9		Cum	1	9.00	1.00	0.15	1.35	
		Right Side							
0	15		Cum	1	15.00	1.00	0.15	2.25	
15	30.3		Cum	1	15.30	1.00	0.15	2.30	
30.3	41.3		Cum	1	11.00	1.00	0.15	1.65	
41.3	57		Cum	1	15.70	1.00	0.15	2.36	

CIVIL Pro Sig Date BANGALORE

Contactor

Assistant Engineer

A.E.E

Assistant Executive Engineer

MEASUREMENT SHEET - 1st and FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
		5thA Cross School Opposite							
0	15		Cum	1	15.00	1.00	0.15	2.25	
15	24.5		Cum	1	9.50	1.00	0.15	1.43	
24.5	39.5		Cum	1	15.00	1.00	0.15	2.25	
39.5	54.8		Cum	1	15.30	1.00	0.15	2.30	
54.8	69.8		Cum	1	15.00	1.00	0.15	2.25	
69.8	84.8		Cum	1	15.00	1.00	0.15	2.25	
84.8	98.5		Cum	1	13.70	1.00	0.15	2.06	
		5thA Cross School Opposite							
0	3.3		Cum	1	3.30	1.00	0.15	0.50	
		Bekary Opposite							
0	14		Cum	1	14.00	1.00	0.15	2.10	
		Cross Road							
		Left Side							
0	15		Cum	1	15.00	1.00	0.15	2.25	
15	24.7		Cum	1	9.70	1.00	0.15	1.46	
24.7	39.7		Cum	1	15.00	1.00	0.15	2.25	
39.7	50.1		Cum	1	10.40	1.00	0.15	1.56	
		Right Side							
0	15		Cum	1	15.00	1.00	0.15	2.25	
15	30		Cum	1	15.00	1.00	0.15	2.25	
30	45		Cum	1	15.00	1.00	0.15	2.25	
45	58		Cum	1	13.00	1.00	0.15	1.95	
		Cross Road							
		Right Side							
0	15		Cum	1	15.00	1.10	0.15	2.48	
15	32		Cum	1	17.00	1.10	0.15	2.81	
32	37.6		Cum	1	5.60	1.10	0.15	0.92	
		Cross Road							
		Left Side							
0	15		Cum	1	15.00	1.00	0.15	2.25	
15	30		Cum	1	15.00	1.00	0.15	2.25	
30	40		Cum	1	10.00	1.00	0.15	1.50	
		Right Side							
0	15		Cum	1	15.00	1.00	0.15	2.25	
15	30		Cum	1	15.00	1.00	0.15	2.25	
30	40.3		Cum	1	10.30	1.00	0.15	1.55	
		Cross Road							
		Left Side							
0	15		Cum	1	15.00	1.00	0.15	2.25	
15	30		Cum	1	15.00	1.00	0.15	2.25	
30	34		Cum	1	4.00	1.00	0.15	0.60	
		Right Side							
0	15		Cum	1	15.00	1.10	0.15	2.48	
15	30		Cum	1	15.00	1.10	0.15	2.48	

CIVIL Pro Sig Date BANGALORE

Contactor

PMC

Assistant Engineer

A.E.E

Assistant Executive Engineer

Assistant Executive Engineer

MEASUREMENT SHEET - 1st and FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
30	37.1		Cum	1	7.10	1.10	0.15	1.17	
		Culvert							
		Harohalli colony							
		Temple Road							
			Cum	1	4.90	1.40	0.20	1.37	
			Cum	1	3.80	1.40	0.20	1.06	
			Cum	1	6.80	1.40	0.20	1.90	
		Cross Road							
			Cum	1	7.40	1.40	0.20	2.07	
			Cum	1	6.40	1.40	0.20	1.79	
			Cum	1	10.40	1.40	0.20	2.91	
		Side Wall							
		Harohalli colony							
		Temple Road							
0	14.4		Cum	2	14.40	0.15	0.90	3.89	
14.4	18.2		Cum	2	3.80	0.15	0.90	1.03	
18.2	33.2		Cum	2	15.00	0.15	0.90	4.05	
33.2	48.2		Cum	2	15.00	0.15	0.90	4.05	
48.2	63.2		Cum	2	15.00	0.15	0.90	4.05	
63.2	76.7		Cum	2	13.50	0.15	0.90	3.65	
76.7	91.7		Cum	2	15.00	0.15	0.90	4.05	
91.7	96.5		Cum	2	4.80	0.15	0.90	1.30	
96.5	111.7		Cum	2	15.20	0.15	0.90	4.10	
111.7	120.5		Cum	2	8.80	0.15	0.90	2.38	
120.5	135.5		Cum	2	15.00	0.15	0.90	4.05	
135.5	149.2		Cum	2	13.70	0.15	0.90	3.70	
149.2	164.2		Cum	2	15.00	0.15	0.90	4.05	
164.2	176.2		Cum	2	12.00	0.15	0.90	3.24	
176.2	191.2		Cum	2	15.00	0.15	0.90	4.05	
191.2	203.4		Cum	2	12.20	0.15	0.90	3.29	
203.4	218.4		Cum	2	15.00	0.15	0.90	4.05	
218.4	224.3		Cum	2	5.90	0.15	0.90	1.59	
224.3	228.7		Cum	2	4.40	0.15	0.90	1.19	
228.7	243.7		Cum	2	15.00	0.15	0.90	4.05	
243.7	257.8		Cum	2	14.10	0.15	0.90	3.81	
		Cross Road							
		Left Side							
0	15		Cum	2	15.00	0.15	0.50	2.25	
15	16.9		Cum	2	1.90	0.15	0.50	0.29	
16.9	31.9		Cum	2	15.00	0.15	0.50	2.25	
31.9	46.9		Cum	2	15.00	0.15	0.50	2.25	
46.9	61.9		Cum	2	15.00	0.15	0.50	2.25	
61.9	76.9		Cum	2	15.00	0.15	0.50	2.25	
76.9	85.9		Cum	2	9.00	0.15	0.50	1.35	

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Assistant Engineer

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MEASUREMENT SHEET - 1st and FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
		Right Side							
0	15		Cum	2	15.00	0.15	0.55	2.48	
15	30.3		Cum	2	15.30	0.15	0.55	2.52	
30.3	41.3		Cum	2	11.00	0.15	0.55	1.82	
41.3	57		Cum	2	15.70	0.15	0.55	2.59	
		5thA Cross School Opposite							
0	15		Cum	2	15.00	0.15	0.85	3.83	
15	24.5		Cum	2	9.50	0.15	0.85	2.42	
24.5	39.5		Cum	2	15.00	0.15	0.80	3.60	
39.5	54.8		Cum	2	15.30	0.15	0.80	3.67	
54.8	69.8		Cum	2	15.00	0.15	0.75	3.38	
69.8	84.8		Cum	2	15.00	0.15	0.70	3.15	
84.8	98.5		Cum	2	13.70	0.15	0.60	2.47	
		5thA Cross School Opposite							
0	3.3		Cum	2	3.30	0.15	0.60	0.59	
		Bekary Opposite							
0	14		Cum	2	14.00	0.15	0.60	2.52	
		Cross Road							
		Left Side							
0	15		Cum	2	15.00	0.15	0.90	4.05	
15	24.7		Cum	2	9.70	0.15	0.90	2.62	
24.7	39.7		Cum	2	15.00	0.15	0.80	3.60	
39.7	50.1		Cum	2	10.40	0.15	0.80	2.50	
		Right Side							
0	15		Cum	2	15.00	0.15	0.65	2.93	
15	30		Cum	2	15.00	0.15	0.65	2.93	
30	45		Cum	2	15.00	0.15	0.60	2.70	
45	58		Cum	2	13.00	0.15	0.55	2.15	
		Cross Road							
		Right Side							
0	15		Cum	2	15.00	0.15	0.60	2.70	
15	32		Cum	2	17.00	0.15	0.55	2.81	
32	37.6		Cum	2	5.60	0.15	0.30	0.50	
		Cross Road							
		Left Side							
0	15		Cum	2	15.00	0.15	0.60	2.70	
15	30		Cum	2	15.00	0.15	0.65	2.93	
30	40		Cum	2	10.00	0.15	0.65	1.95	
		Right Side							
0	15		Cum	2	15.00	0.15	0.55	2.48	
15	30		Cum	2	15.00	0.15	0.60	2.70	
30	40.3		Cum	2	10.30	0.15	0.60	1.85	

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MEASUREMENT SHEET - 1st and FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
		Cross Road							
		Left Side							
0	15		Cum	2	15.00	0.15	0.65	2.93	
15	30		Cum	2	15.00	0.15	0.40	1.80	
30	34		Cum	2	4.00	0.15	0.40	0.48	
		Right Side							
0	15		Cum	2	15.00	0.15	0.40	1.80	
15	30		Cum	2	15.00	0.15	0.40	1.80	
30	37.1		Cum	2	7.10	0.15	0.40	0.85	
		Culvert							
		Harohalli colony							
		Temple Road							
			Cum	2	4.90	0.20	0.60	1.18	
			Cum	2	3.80	0.20	0.60	0.91	
			Cum	2	6.80	0.20	0.60	1.63	
		Cross Road							
			Cum	2	7.40	0.20	0.60	1.78	
			Cum	2	6.40	0.20	0.60	1.54	
			Cum	2	10.40	0.20	0.60	2.50	
							TOTAL	**326.66**	

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S.NO	Description	Nos	BAR DIA	No. Bars	Total No. bars	Length	Total Length	Weight	Total weight
			mm			m	m	kg/m	Kg's
Item no.04	**Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.**								
	Harohalli colony								
	Temple Road								
	Main Bars (#12@120 c/c)	1	12	2149	2149	3.40	7307.73	0.887814	6487.91
	Distribution(10-#8)	1	8	10	10	257.80	2578.00	0.394584	1017.24
	Cross Road								
	LHS								
	Main Bars (#12@120 c/c)	1	12	717	717	2.30	1648.72	0.887814	1463.75
	Distribution(10-#8)	1	8	10	10	85.90	859.00	0.394584	338.95
	RHS								
	Main Bars (#12@120 c/c)	1	12	476	476	2.40	1142.40	0.887814	1014.24
	Distribution(10-#8)	1	8	10	10	57.00	570.00	0.394584	224.91
	5thA Cross School Opposite								
	Main Bars (#12@140 c/c)	1	12	705	705	3.00	2113.71	0.887814	1876.59
	Distribution(10-#8)	1	8	10	10	98.50	985.00	0.394584	388.67
	5thA Cross School Opposite								
	Main Bars (#12@140 c/c)	1	12	25	25	2.50	61.43	0.887814	54.54
	Distribution(9-#8)	1	8	9	9	3.30	29.70	0.394584	11.72
	Bekary Opposite								
	Main Bars (#12@140 c/c)	1	12	101	101	2.50	252.50	0.887814	224.17
	Distribution(9-#8)	1	8	9	9	14.00	126.00	0.394584	49.72
	Cross Road								
	LHS								
	Main Bars (#12@140 c/c)	1	12	359	359	3.10	1112.46	0.887814	987.66
	Distribution(9-#8)	1	8	9	9	50.10	450.90	0.394584	177.92
	RHS								
	Main Bars (#12@140 c/c)	1	12	415	415	2.60	1079.74	0.887814	958.61
	Distribution(9-#8)	1	8	9	9	58.00	522.00	0.394584	205.97
	Cross Road								
	RHS								
	Main Bars (#12@140 c/c)	1	12	270	270	2.60	700.89	0.887814	622.26
	Distribution(9-#8)	1	8	9	9	37.60	338.40	0.394584	133.53
	Cross Road								

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LHS								
Main Bars (#12@140 c/c)	1	12	287	287	2.60	745.46	0.887814	661.83
Distribution(9-#8)	1	8	9	9	40.00	360.00	0.394584	142.05
RHS								
Main Bars (#12@140 c/c)	1	12	289	289	2.50	722.14	0.887814	641.13
Distribution(9-#8)	1	8	9	9	40.30	362.70	0.394584	143.12
Cross Road								
LHS								
Main Bars (#12@140 c/c)	1	12	244	244	2.60	634.03	0.887814	562.90
Distribution(9-#8)	1	8	9	9	34.00	306.00	0.394584	120.74
RHS								
Main Bars (#12@140 c/c)	1	12	266	266	2.20	585.20	0.887814	519.55
Distribution(9-#8)	1	8	9	9	37.10	333.90	0.394584	131.75
Culvert								
Harohalli colony								
Temple Road								
side wall								
Main Bars outer face (#16@180 c/c)	2	16	28	56	3.00	169.33	1.578336	267.26
Main Bars inner face (#16@180 c/c)	2	16	28	56	2.60	146.76	1.578336	231.63
Distribution								
side walls(9#10)	4	10	9	36	0.80	28.80	0.616538	17.76
bottom slab(9-#10)	2	10	9	18	1.40	25.20	0.616538	15.54
Temple Road								
side wall								
Main Bars outer face (#16@180 c/c)	2	16	22	44	3.00	132.67	1.578336	209.39
Main Bars inner face (#16@180 c/c)	2	16	22	44	2.60	114.98	1.578336	181.47
Distribution								
side walls(9#10)	4	10	9	36	0.80	28.80	0.616538	17.76
bottom slab(9-#10)	2	10	9	18	1.40	25.20	0.616538	15.54
Temple Road								
LHS								
side wall								
Main Bars outer face (#16@170 c/c)	2	16	41	82	3.00	246.00	1.578336	388.27
Main Bars inner face (#16@170 c/c)	2	16	41	82	2.60	213.20	1.578336	336.50
Distribution								
side walls(8#10)	4	10	8	32	0.80	25.60	0.616538	15.78
bottom slab(8-#10)	2	10	8	16	1.40	22.40	0.616538	13.81
Cross Road								
side wall								
Main Bars outer face (#16@180 c/c)	2	16	42	84	3.00	252.67	1.578336	398.79
Main Bars inner face (#16@180 c/c)	2	16	42	84	2.60	218.98	1.578336	345.62
Distribution								
side walls(8#10)	4	10	8	32	0.80	25.60	0.616538	15.78

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bottom slab(8-#10)	2	10	8	16	1.40	22.40	0.616538	13.81
Cross Road								
side wall								
Main Bars outer face (#16@170 c/c)	2	16	39	77	3.00	231.88	1.578336	365.99
Main Bars inner face (#16@170 c/c)	2	16	39	77	2.60	200.96	1.578336	317.19
Distribution								
side walls(9#10)	4	10	9	36	0.80	28.80	0.616538	17.76
bottom slab(9-#10)	2	10	9	18	1.40	25.20	0.616538	15.54
Cross Road								
RHS								
side wall								
Main Bars outer face (#16@170 c/c)	2	16	62	124	3.00	373.06	1.578336	588.81
Main Bars inner face (#16@170 c/c)	2	16	62	124	2.60	323.32	1.578336	510.30
Distribution								
side walls(9#10)	4	10	9	36	0.80	28.80	0.616538	17.76
bottom slab(9-#10)	2	10	9	18	1.40	25.20	0.616538	15.54
							TOTAL QTY IN KG'S	23495.00
							TOTAL QTY IN TONNE	23.49

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MEASUREMENT SHEET - 1st and FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
Item no.05		Providing and fixing RCC precast cover slab of 100mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per the directions of the Engineer-in-charge of the work . (Data Rate)							
		Harohalli colony							
		Temple Road							
0	14.4		Sqm	1	14.40	0.90		12.96	
14.4	18.2		Sqm	1	3.80	0.90		3.42	
18.2	33.2		Sqm	1	15.00	0.90		13.50	
33.2	48.2		Sqm	1	15.00	0.90		13.50	
48.2	63.2		Sqm	1	15.00	0.90		13.50	
63.2	76.7		Sqm	1	13.50	0.90		12.15	
76.7	91.7		Sqm	1	15.00	0.90		13.50	
91.7	96.5		Sqm	1	4.80	0.90		4.32	
96.5	111.7		Sqm	1	15.20	0.90		13.68	
111.7	120.5		Sqm	1	8.80	0.90		7.92	
120.5	135.5		Sqm	1	15.00	0.90		13.50	
135.5	149.2		Sqm	1	13.70	0.90		12.33	
149.2	164.2		Sqm	1	15.00	0.90		13.50	
164.2	176.2		Sqm	1	12.00	0.90		10.80	
176.2	191.2		Sqm	1	15.00	0.90		13.50	
191.2	203.4		Sqm	1	12.20	0.90		10.98	
203.4	218.4		Sqm	1	15.00	0.90		13.50	
218.4	224.3		Sqm	1	5.90	0.90		5.31	
224.3	228.7		Sqm	1	4.40	0.90		3.96	
228.7	243.7		Sqm	1	15.00	0.90		13.50	
243.7	257.8		Sqm	1	14.10	0.90		12.69	
		Cross Road							
		Left Side							
0	15		Sqm	1	15.00	0.90		13.50	
15	16.9		Sqm	1	1.90	0.90		1.71	
16.9	31.9		Sqm	1	15.00	0.90		13.50	
31.9	46.9		Sqm	1	15.00	0.90		13.50	
46.9	61.9		Sqm	1	15.00	0.90		13.50	
61.9	76.9		Sqm	1	15.00	0.90		13.50	
76.9	85.9		Sqm	1	9.00	0.90		8.10	
		Right Side							
0	15		Sqm	1	15.00	0.90		13.50	
15	30.3		Sqm	1	15.30	0.90		13.77	
30.3	41.3		Sqm	1	11.00	0.90		9.90	
41.3	57		Sqm	1	15.70	0.90		14.13	
		5thA Cross School Opposite							
0	15		Sqm	1	15.00	0.90		13.50	
15	24.5		Sqm	1	9.50	0.90		8.55	

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MEASUREMENT SHEET - 1st and FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
24.5	39.5		Sqm	1	15.00	0.90		13.50	
39.5	54.8		Sqm	1	15.30	0.90		13.77	
54.8	69.8		Sqm	1	15.00	0.90		13.50	
69.8	84.8		Sqm	1	15.00	0.90		13.50	
84.8	98.5		Sqm	1	13.70	0.90		12.33	
		5thA Cross School Opposite							
0	3.3		Sqm	1	3.30	0.90		2.97	
		Cross Road							
		Left Side							
0	15		Sqm	1	15.00	0.90		13.50	
15	24.7		Sqm	1	9.70	0.90		8.73	
24.7	39.7		Sqm	1	15.00	0.90		13.50	
39.7	50.1		Sqm	1	10.40	0.90		9.36	
		Right Side							
0	15		Sqm	1	15.00	0.75		11.25	
15	30		Sqm	1	15.00	0.75		11.25	
30	45		Sqm	1	15.00	0.75		11.25	
45	58		Sqm	1	13.00	0.75		9.75	
		Cross Road							
		Right Side							
0	15		Sqm	1	15.00	0.90		13.50	
15	32		Sqm	1	17.00	0.90		15.30	
32	37.6		Sqm	1	5.60	0.90		5.04	
		Cross Road							
		Left Side							
0	15		Sqm	1	15.00	0.90		13.50	
15	30		Sqm	1	15.00	0.90		13.50	
30	40		Sqm	1	10.00	0.90		9.00	
		Right Side							
0	15		Sqm	1	15.00	0.90		13.50	
15	30		Sqm	1	15.00	0.90		13.50	
30	40.3		Sqm	1	10.30	0.90		9.27	
		Cross Road							
		Left Side							
0	15		Sqm	1	15.00	0.75		11.25	
15	30		Sqm	1	15.00	0.75		11.25	
30	34		Sqm	1	4.00	0.75		3.00	
		Right Side							
0	15		Sqm	1	15.00	0.75		11.25	
15	30		Sqm	1	15.00	0.75		11.25	
30	37.1		Sqm	1	7.10	0.75		5.33	
		Missing Cover Slab							
			Sqm	56	1.20	0.60		40.32	
				66	0.90	0.60		35.64	
							TOTAL	**776.24**	

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Assistant Engineer

A.E.E

Assistant Executive Engineer

MEASUREMENT SHEET - 1st and FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
Item no.06		Providing and fixing RCC precast cover slab of 250mm thick made out of CC 1:2:4 and jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per the directions of the Engineer-in-charge of the work . (Data Rate)							
		Culvert							
		Harohalli colony							
		Temple Road							
			Sqm	1	4.90	1.20		5.88	
			Sqm	1	3.80	1.20		4.56	
			Sqm	1	6.80	1.20		8.16	
		Cross Road							
			Sqm	1	7.40	1.20		8.88	
			Sqm	1	6.40	1.20		7.68	
			Sqm	1	10.40	1.20		12.48	
		Damage Cover Slab							
			Sqm	13	1.20	0.60		9.36	
			Sqm	5	1.50	0.60		4.50	
							TOTAL	61.50	

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Assistant Executive Engineer

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MEASUREMENT SHEET - 1st and FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
Item no.07		Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete. As per the direction of Engineer incharge							
		Harohalli colony							
		Temple Road							
0	14.4		Nos	1	14.40		/0.45	32.00	
14.4	18.2		Nos	1	3.80		/0.45	8.44	
18.2	33.2		Nos	1	15.00		/0.45	33.33	
33.2	48.2		Nos	1	15.00		/0.45	33.33	
48.2	63.2		Nos	1	15.00		/0.45	33.33	
63.2	76.7		Nos	1	13.50		/0.45	30.00	
76.7	91.7		Nos	1	15.00		/0.45	33.33	
91.7	96.5		Nos	1	4.80		/0.45	10.67	
96.5	111.7		Nos	1	15.20		/0.45	33.78	
111.7	120.5		Nos	1	8.80		/0.45	19.56	
120.5	135.5		Nos	1	15.00		/0.45	33.33	
135.5	149.2		Nos	1	13.70		/0.45	30.44	
149.2	164.2		Nos	1	15.00		/0.45	33.33	
164.2	176.2		Nos	1	12.00		/0.45	26.67	
176.2	191.2		Nos	1	15.00		/0.45	33.33	
191.2	203.4		Nos	1	12.20		/0.45	27.11	
203.4	218.4		Nos	1	15.00		/0.45	33.33	
218.4	224.3		Nos	1	5.90		/0.45	13.11	
224.3	228.7		Nos	1	4.40		/0.45	9.78	
228.7	243.7		Nos	1	15.00		/0.45	33.33	
243.7	251.9		Nos	1	8.20		/0.45	18.22	
		3rd Cross Road							
0	14		Nos	1	14.00		/0.45	31.11	
							TOTAL	591	

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MEASUREMENT SHEET - 1st and FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
Item no.08		Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 Specification As per the direction of Engineer incharge							
		Harohalli colony							
		Temple Road							
0	14.4		Sqm	1	14.40	0.40		5.76	
14.4	18.2		Sqm	1	3.80	0.40		1.52	
18.2	33.2		Sqm	1	15.00	0.40		6.00	
33.2	48.2		Sqm	1	15.00	0.40		6.00	
48.2	63.2		Sqm	1	15.00	0.40		6.00	
63.2	76.7		Sqm	1	13.50	0.40		5.40	
76.7	91.7		Sqm	1	15.00	0.40		6.00	
91.7	96.5		Sqm	1	4.80	0.40		1.92	
96.5	111.7		Sqm	1	15.20	0.40		6.08	
111.7	120.5		Sqm	1	8.80	0.40		3.52	
120.5	135.5		Sqm	1	15.00	0.40		6.00	
135.5	149.2		Sqm	1	13.70	0.40		5.48	
149.2	164.2		Sqm	1	15.00	0.40		6.00	
164.2	176.2		Sqm	1	12.00	0.40		4.80	
176.2	191.2		Sqm	1	15.00	0.40		6.00	
191.2	203.4		Sqm	1	12.20	0.40		4.88	
203.4	218.4		Sqm	1	15.00	0.40		6.00	
218.4	224.3		Sqm	1	5.90	0.40		2.36	
224.3	228.7		Sqm	1	4.40	0.40		1.76	
228.7	243.7		Sqm	1	15.00	0.40		6.00	
243.7	251.9		Sqm	1	8.20	0.40		3.28	
		3rd Cross Road							
0	14		Sqm	1	14.00	0.40		5.60	
							TOTAL	106.36	

CIVIL Pro Sig Date BANGALORE

PMC

Assistant Engineer

A.E.E

Assistant Executive Engineer

Contactor